Abstract:

other is monitored and controlled.

2	An event-driven system that that provides scheduling and resource allocation for an
3	internet serve. A cost-benefit model and user preferences are used to prioritize and
4	schedule tasks. The present invention improves or optimizes a network server's
5	performance by prioritizing tasks according to their importance, cost, and the system
6	owners desires. The tasks are scheduled and resources (for example memory) are
7	allocated to the tasks in accordance with their priority. Interlayer communication is used to
8	provide a faster way to move data and to provide feedback as to the current state of a
9	particular layer. Header parsing and peeking provides a way to make decisions earlier
10	rather than waiting for the necessary information to bubble up to a higher layer. A thin
11	thread model is used to handle tasks. The progress of the thin threads relative to each

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